

## BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP

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PLEASE NOTE:  
YOU MUST  
COMPLETE THE  
FOLLOWING

## COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Insert Title:

SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

Fill in Appropriate

the specification of which is attached hereto. If not attached hereto, the application is identified by the attorney docket number as set forth above and/or the following:

Information -  
For Use Without  
Specification  
Attached:

The specification was filed on February 9, 1999 as  
United States Application Number 09/230,799;  
and amended on November 13, 2002 and April 25, 2003 (if applicable) and/or  
the specification was filed on June 9, 1998 as PCT  
International Application Number PCT/IB98/00893 and was  
amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months (six months for designs) prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application, by me or my legal representatives or assigns, except as follows:

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

Insert Priority  
Information:  
(if appropriate)

(Number)	(Country)	(Month/Day/Year Filed)	Yes	No
<u>9702213-1</u>	<u>Sweden</u>	<u>June 10, 1997</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>9704634-6</u>	<u>Sweden</u>	<u>December 12, 1997</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>9800268-6</u>	<u>Sweden</u>	<u>January 30, 1998</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
_____ (Number)	_____ (Country)	_____ (Month/Day/Year Filed)	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

Insert Provisional  
Application(s):  
(if any)

(Application Number)	(Filing Date)
_____ (Application Number)	_____ (Filing Date)

All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior to the Filing Date of This Application:

Insert Requested  
Information:  
(if appropriate)

Country	Application Number	Date of Filing (Month/Day/Year)
_____ (Country)	_____ (Application Number)	_____ (Date of Filing)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States and/or PCT application(s), including for continuation-in-part application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States Code, §112 I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Insert Prior U.S.  
Application(s):  
(if any)

(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

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Rev. 07/2002

I hereby appoint the practitioners at CUSTOMER NO. 02292 as my attorneys or agents to prosecute this application and/or an international application based on this application and to transact all business in the United States Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the practitioners, unless the inventor(s) or assignee provides said practitioners with a written notice to the contrary:

Send Correspondence to:

**BIRCH, STEWART, KOLASCH & BIRCH, LLP** or CUSTOMER NO. 02292  
P.O. Box 747 • Falls Church, Virginia 22040-0747  
Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

PLEASE NOTE  
YOU MUST  
COMPLETE  
THE  
FOLLOWING:

Full Name of First  
Inventor, if any,  
last name of  
inventor, if any,  
first name, if any,  
middle name, if any,  
last name, if any

Given Residence  
Address

Mail Post Office  
Address

Full Name of Second  
Inventor, if any,  
last name, if any,  
first name, if any,  
middle name, if any

Full Name of Third  
Inventor, if any,  
last name, if any,  
first name, if any,  
middle name, if any

Full Name of Fourth  
Inventor, if any,  
last name, if any,  
first name, if any,  
middle name, if any

Full Name of Fifth  
Inventor, if any,  
last name, if any,  
first name, if any,  
middle name, if any

Full Name of Sixth  
Inventor, if any,  
last name, if any,  
first name, if any,  
middle name, if any

Page 2 of 2  
(Rev. 07/2007)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

GIVEN NAME/FAMILY NAME		INVENTOR'S SIGNATURE	DATE
Lars Gustaf LJLJERYD		<i>[Signature]</i>	7 Oct 2003
Residence (City, State & Country)		CITIZENSHIP	
Solna, Sweden		Swedish	
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GIVEN NAME/FAMILY NAME		INVENTOR'S SIGNATURE	DATE
Per Rune Albin EKSTRAND		<i>[Signature]</i>	7 Oct 2003
Residence (City, State & Country)		CITIZENSHIP	
Stockholm, Sweden		Swedish	
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Rensåsternas gata 29, S-116 31 Stockholm, Sweden			
GIVEN NAME/FAMILY NAME		INVENTOR'S SIGNATURE	DATE
Lars Fredrik HENN		<i>[Signature]</i>	7 Oct 2003
Residence (City, State & Country)		CITIZENSHIP	
Bromma, Sweden		Swiss	
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Riksvägen 14, S-168 31 Bromma, Sweden			
GIVEN NAME/FAMILY NAME		INVENTOR'S SIGNATURE	DATE
Hans Magnus Kristofer KJÖRLING		<i>[Signature]</i>	7 Oct 2003
Residence (City, State & Country)		CITIZENSHIP	
Uppsala, Sweden		Swedish	
MAILING ADDRESS (Complete Street Address including City, State & Country)			
Vindhamngatan 19C, S-752 27 Uppsala, Sweden			
GIVEN NAME/FAMILY NAME		INVENTOR'S SIGNATURE	DATE
Residence (City, State & Country)		CITIZENSHIP	
MAILING ADDRESS (Complete Street Address including City, State & Country)			
GIVEN NAME/FAMILY NAME		INVENTOR'S SIGNATURE	DATE
Residence (City, State & Country)		CITIZENSHIP	
MAILING ADDRESS (Complete Street Address including City, State & Country)			

DATE OF SIGNATURE

COPY

STATEMENT BY A NON-INVENTOR SUPPORTING  
A CLAIM BY ANOTHER FOR SMALL ENTITY STATUS

Docket Number:

Applicant, Patentee, or Identifier: Per R.A. EKSTRAND, Lars F. HENN,  
Hans M.K. KJÖRLING

Application or Patent No.: 09/230,799

Filed or Issued: February 9, 1999

Title: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

I hereby state that I am making this statement to support a claim by Per R.A. EKSTRAND, Lars F. HENN, Hans M. KJÖRLING for small entity status for purposes of paying reduced fees to the United States Patent and Trademark Office, regarding the invention described in:

- ☐ the specification filed herewith with title as listed above.  
☒ the application identified above.  
☐ the patent identified above.

I hereby state that I would qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying fees to the United States Patent and Trademark Office, if I had made the above identified invention.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). Note: Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the inventions is listed below:

- ☒ no such person, concern, or organization exists.  
☐ each such person, concern, or organization is listed below.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is not longer appropriate.  
(37 CFR 1.28(b))

NAME OF PERSON SIGNING Lars G. LILJERYD

TITLE IN ORGANIZATION OF PERSON SIGNING \_\_\_\_\_

ADDRESS OF PERSON SIGNING Vintervagen 19, S-171 34 Solna, Sweden

SIGNATURE \_\_\_\_\_

DATE February 10, 1999

STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(b)) - INDEPENDENT INVENTOR

Docket Number: 226-103P

Applicant, Patentee, or Identifier: Per R.A. EKSTRAND, Lars F. HENN,  
Hans M.K. KJÖRLING

Application or Patent No.: 09/230,799

Filed or Issued: February 9, 1999

Title: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☐ the specification filed herewith with title as listed above.  
☒ the application identified above.  
☐ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the inventions is listed below:

- ☐ No such person, concern, or organization exists.  
☒ Each such person, concern, or organization is listed below.

Lars. G. LILJERYD

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

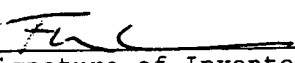
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is not longer appropriate.  
(37 CFR 1.28(b))

Per R.A. EKSTRAND  
Name of Inventor

  
Signature of Inventor

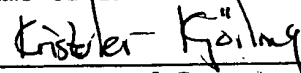
February 10, 1999  
Date

Lars F. HENN  
Name of Inventor

  
Signature of Inventor

February 10, 1999  
Date

Hans M.K. KJÖRLING  
Name of Inventor

  
Signature of Inventor

February 10, 1999  
Date